

Ref A
GIMESI, N.

GIMESI (N.) & FRENYÓ (V.). *Miképpen a bűzös szénkelet hat a kórokozó-
spórák kibontására?* [What is the basis of the stimulative effect of soil on the
germination of *Tilletia* spores?]-*Agdrtudomány (Agricultural Science)*, 1, 5,
pp. 252-254, 1949. [Russian and English summaries.]

The stimulating effect of soil on the germination of wheat bunt (*Tilletia* [*T. caries* and *T. foetida*]) spores in Hungary [*R.A.M.*, 6, p. 370, *et passim*] is attributed to absorption. Germination is inhibited by the trimethylamine contained in the spores [*ibid.*, 11, p. 775], but this substance is absorbed by the soil.

GIMESI, NANDOR

MP ✓ Biology of the formation of anthocyanins. Nándor Gimesi, András Garay, Béla Pozsár, and Gábor Farkas. *Botvda (L. Univ., Budapest). Agrochimica et Talajtan* 1, 230-40 (1952).—No anthocyan was formed in seedlings of *Amaranthus caudatus* when kept in darkness or placed in sunlight only after 3-4 days. Seedlings first germinated in darkness and placed in sunlight after 42 hrs. developed as much anthocyan as when kept in sunlight from the start of germination. The light-sensitive stage lasted in July 72 hrs. whereas in March the seedlings lost their light sensitivity at an age of 48 hrs. No const. exposure to light is necessary in the sensitive stage. In July, 2-min. exposure was satisfactory for seedlings aged 48 to 61 hrs., whereas 120 min. was needed in seedlings aged 27 or 69 hrs. Besides light, also an inner factor like a special type of metabolism plays a role in the formation of anthocyan. The chem. analysis of the AnthOx exts. of seedlings grown in darkness is referred to the reducing effect of the soln. to flavonol. Light presumably affects the conversion flavonolanthocyan by influencing the activity of an enzyme catalyzing this process. This is corroborated by the experience that hot water exts. are more stable. I. Farkas

GIMESI, N. I.

Double refraction of the nuclear spindle. N. I. Gimési
(R. Eötvös Univ., Budapest). Acta Botan. Acad. Sz.
Hung. 1, 27-35 (1956) (in German).—Observations with the
polarizing microscope on living cells during the maturation
divisions of microsporogenesis shows a definite pos. double
refraction of the threads of the nuclear spindle which can be
heightened by Bouin fixation, the latter effect being explain-
able by the process of coagulation. With acetocarmum
stains, it is possible to demonstrate a banded and furrowed
structure in the nuclear spindle. Hypertonic sucrose solution
produce cuts in the spindle in the direction of the main
axis. These observations suggest that the reversibly gelatin-
izing cytoplasmic strands, on the basis of the polarized
effects of the division processes, show a resistance in both
directions. Na nitroprusside reagent has established the
presence in the nuclear spindle of S-contg. amino acids.
R. B. Clark

GIMESI, N.

HUNG ?

Variable uptake in the plant tissue in hypo-, iso-, and hypertonic glycerol and salt solutions. N. Gimési and B. Pászár (Univ. Botan. Garden, Budapest). *Acta Bot. Hung.* 5, 55-68(1964). --There is much more intensive uptake by epidermal cells of leaves of *Helodea* [Ehde] canadensis and of *Allium cepa* when immersed in hypotonic solutions of glycerol, KNO_3 , or $MnSO_4$ than from their isotonic or hypertonic solutions. This difference in accumulative action is attributed to an active physiol. process provided by aerobic respiration. This was shown by the reduced accumulation following removal of O_2 (with basic pyrogallol) from air space, and also following poisoning of oxidases with KCN (0.03% soln.). This difference in uptake is partly explained as due to ability of hypotonic soln. to produce increased hydration with vacuole contraction, and partly due to a change in the reversibility of function of the cell membrane.

G. M. Hocking

NO. 1/2

GIMESI, N.

HUNG

✓ Examination of chloroplasts surviving in the necrotic cytoplasm of *Elodea canadensis*; effect of manganous sulfate on the starch synthesis and mobilization of the plastids. N. Gimési and B. Pozsár (Univ. Botan. Garden, Budapest, Hungary). *Acta. Sci. Hung.* 5, 67-78 (1954). No. 1/2
—When cells of *E. canadensis* leaf were subjected to hypertonic solns. of $MnSO_4$, coagulation and acidification of the cytoplasm were observed; these were regarded as stages of necrosis. The chloroplasts apparently survived for several days and carried on their normal function of photosynthesis, as shown by their ability to continue starch manuf. However, the starch mobilization function (as indicated by residual starch content found in leaves in morning after detn. on previous day) was inhibited, and it was concluded that the cytoplasm regulates this function of starch movement. As concn. of solns. increased, increasingly smaller amts. of starch were mobilized (thus, 0.1M soln. over 72 hrs. mobilized 73.6%, 0.3M over 72 hrs. mobilized 23.7%). Starch synthesis in $MnSO_4$ solns. was slightly stimulated (compared to controls in natural water), reaching a max. at 0.1M concn. and declining extremely rapidly at 0.45M. The other electrolytes examd. (KCl , $Ca(NO_3)_2$, $AlCl_3$, $MnCl_2$) were neg. in this respect. With $MnSO_4$ solns., deplasmolyzability remained longer than with comparable solns. of these other electrolytes; hence it was assumed that $MnSO_4$ is least destructive to the ultrastructure of the cytoplasm. G. M. Hocking

HUNGARY / General Biology. Physical and Chemical Biology. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14278

Author : Gimesi, N. I.; Poszar, B. I.

Inst : Hungarian Academy of Sciences

Title : The Physiology of Protoplasmic Movements

Orig Pub : Acta biol. Acad. sci. hung., 1956, 6, No 1-2,
113-132

Abstract : No abstract given

Card 1/1

GIMESI, N.; POSZAR, B.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R0005

Physiological effect of heat stimulus on the germination of the light- and dark
sensitive seeds. In English. p. 135.
(Acta Biologica. Vol. 7, no. 2/3, 1957. Budapest.)

SC: Monthly List of East European Accessions (SEAL) LC, Vol. 6, no. 6, June 1957. Uncl.

HUNGARY / General Biology. Cytology. Plant Cytology. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14303

Author : Gimesi, N. I.; Pozsar, B. I.

Inst : Hungarian Academy of Sciences

Title : The Natural Vacuolation of Chromoplasts

Orig Pub : Acta biol. Acad. sci. hung., 1957, 7, No 2-3
153-160

Abstract : The processes of starch vacuolation and mobilization and the fluorescence of stamens *Tinantia fugax* L in plastids were examined with the aid of fluorescent microscopes and polarization microscopes. Carotene lipids, lipochromes and sugar were histochemically determined. It was established that when tetrads form and the most extensive growth of the stamen filament occurs, leucoplasts

Card 1/2

HUNGARY / General Biology. Cytology. Plant Cytology. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14303

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R0005

accumulate carotene and are vacuolated in a very characteristic manner; at the same time a mobilization of starch is observed to take place. The authors maintain that the enumerated properties are not the results of necrotic changes, since the vacuolation of the latter is not determined by its shape and size and is not connected with the mobilization of starch. There also exist plasmolytic differences between these two vacuolation types.

Card 2/2

ERDEV, Laszlo, prof., dr. (Budapest XI, Gellert ter. 4); GIMESI, Otto (Budapest XI, Gellert ter. 4); RADY, Gyorgy (Budapest XI, Gellert ter. 4)

Determination of elementary sulfur in nonaqueous medium. Acta chimica Hung 28 no.1/3:179-185 '61. (EEAI 10:9)

1. Institut für Allgemeine Chemie der Technischen Universität, Budapest.

(Sulfur) (Benzene) (Acetone) (Cyanides)

RADY, Gyorgy (Budapest XI, Gellertter 4); GIMESI, Otto (Budapest XI, Gellertter 4);
ERDEY, Lasso, prof., dr. (Budapest XI, Gellertter 4)

Determination of the total content of lead and lead oxide in lead
chromate. Acta chimica Hung 28 no.1/3:237-242 '61.
(EEAI 10:9)

1. Institut für Allgemeine Chemie der Technischen Universität, Budapest.

(Lead) (Lead oxides) (Lead chromate)

INCZEDY, Janos (Budapest XI., Gellert ter 4); GIMESI, Otto
(Budapest XI., Gellert ter 4)

Determination of diethyl malonate and its substituted
derivatives in on-aqueous solutions. Acta chimica Hung
31 no.4:347-356 '62.

1. Institut für Allgemeine Chemie der Technischen
Universität, Budapest.

ERDEY, Laszlo, prof., dr. (Budapest, XI., Gellert ter 4); RADY, Gyorgy,
dr. (Budapest, XI., Gellert ter 4); GIMESI, Otto (Budapest, XI.,
Gellert ter 4)

Analysis of lead-containing silver alloys. Acta chimica Hung
32 no.2:151-157 '62.

1. Institut fur Allgemeine Chemie der Technischen Universitat,
Budapest. 2. Mitglied der Redaktion, "Acta Chimica Academiae
Scientiarum Hungaricae" (for Erdey).

DUX, Erno, dr.; GIMESY, Ferenc, dr.; SZABADOS, Terez, dr.

Severe hemorrhagic diathesis after repeated exsanguination-transfusion. Orv.hetil.101 no.33:1170-1174 14 Ag '60.

1. Szegedi Orvostudományi Egyetem, Gyermekklinika
(BLOOD GROUPS)
(BLOOD TRANSFUSION compl)
(HEMORRHAGIC DIATHESIS)

BAKACSI, Gyula, dr.; GIMESY, Ferenc, dr.

Treatment of nephrotic syndrome in childhood. Gyermekgyógyászat
11 no.12:353-361 D '60.

1. Szegedi Orvostudományi Egyetem Gyermekklinika-jának (Igazgató:
Waltner Károly dr. egyetemi tanár) közleménye.
(NEPHROTIC SYNDROME in inf & child)

DUX, Ernc, dr.; KOVACS, Zoltan, dr.; GIMESY, Ferenc, dr.

Data on the problem of humoral regulation of thrombopoiesis (Studies in connection with thrombopenia arising after exchange transfusion in newborn infants). Orv. hetil. 103 no.5:196-204 F '62.

1. Szegei Orvostudományi Egyetem, Gyermekklinika.

(BLOOD TRANSFUSION in inf. & child.)
(ERYTHROBLASTOSIS FETAL therapy)
(THROMBOPENIA in inf. & child.)

GODER, F.L., inzh.; GIMEYN, B.S., inzh.

Steel supports for cableways. * Stroi. prom. 36 no.9:30-32
S '58. (MIRA 11:10)
(Cableways) (Steel, Structural)

CHERNOV, A.; ARKHANGEL'SKIY, Yu.; GIMEYN, S., inzh (Moskva); KHAYKIN, V.;
DASKOVSKIY, V.; DMITRIYEV, K.; YUDIN, G.; SHASHNIN, Yu.

Technological information. Okhr. truda i sots. strakh. 6
no.5:36-42 My '63. (MIRA 16:8)

1. Laboratoriya tekhniki bezopasnosti Gosudarstvennogo vsesoyuznogo
nauchno-issledovatel'skogo tekhnologicheskogo instituta remonta i
ekspluatatsii mashinno-traktornogo parka (for Gimeyn).
(Technological innovations)

NEDRIGAYLOV, V., inzh.; GIMEYN, S.; LISITSYN, V.; LEBEDEV, Yu.; POGONIN, A.;
POTAPOV, P.

Technical information. Okhr. truda i sots. strakh. 6 no.7:41-46
Jl '63. (MIRA 16:10)

1. Starshiy inzh. laboratorii tekhniki bezopasnosti Gosudarstvennogo
vsesoyuznogo nauchno-issledovatel'skogo tekhnologicheskogo instituta
remonta i ekspluatatsii mashinno-traktornogo parka (for Gimeyn).
2. Tekhnicheskii inspektor Yaroslavskogo soveta professional'nykh
soyuzov (for Potapov).

GIMEYN, Semen Markovich, inzh.; ZAGORSKIY, O., rod.; KUZNETSOVA, A.,
tekh. red.

[You should know safety regulations] Znai tekhniku bezopasnosti! Moskva, Mosk. rabochii, 1961. 28 p.
(MIRA 15:1)

(Industrial safety)

GIMEYN, S.M., inzh.

Physical and mechanical properties of manure. Mekh.i elek.sots.sel-
khoz. 20 no.4:49-50 '62. (MIRA 15:8)

1. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy
tekhnologicheskii institut remonta i ekspluatatsii mashinno-
traktornogo parka.
(Fertilizers and manures)

GUMID, L. P.

33057

Petrografo-mineralogocheckie issledovaniye devonskikh otlozheniy yugo-vostochnoy
Tatarii i prilagayu shchikh v ney s yuga rayonov ohkalovskoy i ku ybyshevskoy
oblastey. Trudy in-ta nefti (Akad. Nauk Sssr), T. I. vyp I, 1949, s. 34-53-
Bibliogr: 8 Nazv

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

GIMM, W., prof. dr. ing.

Comparative study of gas eruptions in different coal and salt mines
in Europe. Rev min 13 no.12:529-537 D '62.

GIMM, Werner, prof., dr. ipl. ing., egyetemi tanár

Development of support constructions. Bany lap 94 no.2:73-89
F '61.

1. Bergakademie, Freiberg.

SOV/124-58-5-5505

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 80 (USSR)

AUTHORS: Vyazovov, V.V., Gimmel'brandt, G.N., Kaganskiy, I.M.

TITLE: Optimum Gas Velocities in Diaphragm-type Heat Exchangers
(Optimal'nyye skorosti gazov v teploobmennikakh s perego-
rodkami)

PERIODICAL: Sb. nauchn. tr. Yerevansk. politekhn. in-t, 1957, Nr 16,
pp 105-120

ABSTRACT: Bibliographic entry

1. Gases--Velocity 2. Heat exchange--Performance

Card 1/1

GIMMEL'FARB, A.

Mechanization of one-story and basement warehouses. Sov.
torg. 33 no.3:52-54 Mr '60. (MIRA 13:6)

1. Glavnyy arkhitekt Giprokholoda.
(Warehouses)

GIMMEL'FARB, A.

Cold storage warehouses with air-conditioned transportations systems.
Sov. org. 34 no.11;53-55 N '60. (MIRA 13:11)
(Cold storage warehouses)

GIMMEL'FARB, A. A. Cand Tech Sci --- (diss) "Questions of the Controlling
Role of Slag in Blast Furnaces," Dnepropetrovsk, 1960, 17 pp, 150 copies
(Institute of Ferrous Metallurgy, AS USSR) (KL, 47/60, 102)

GIMMEL'FARB, A.A.

Effect of the change of primary slag composition on the
temperature of the hearth and blast furnace performance.
Izv.vys.ucheb.zav.; chern.met. no.6:15-29 '60.

(MIRA 13:7)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Blast furnaces) (Slag)

GIMMEL'FARB, A.A.

Reduction of the sulfur-content in cast iron. Metallurg 5 no.5:6-7
My '60. (MIRA 14:3)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Cast iron—Metallurgy)
(Desulfuration)

GIMBEL'FARB, A.A.

Determining the optimum composition of primary slag according to crystallization data in the system CaO-FeO-SiO_2 . Izv. vys. ucheb. zav.; chern. met. no.10:31-39 '60. (MIRA 13:11)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Slag--Analysis) (Phase rule and equilibrium)

GOTIB, A.D.; GONCHAROV, P.G.; LEVCHENKO, V.Ye.; GIMMEL'FARB, A.A.; PEVTSOV,
V.P.; LAPA, A.M.

Controlling the thermal conditions of a blast furnace by the composition of the blast furnace gas. Iav.vys.ucheb.zav.; chern.met.
no.4:31-37 '61. (MIRA 14:4)

1. Dnepropetrovskiy metallurgicheskiy institut i Zavod imeni
Petrovskogo.

(Blast furnaces) (Gases--Analysis)

LEVCHENKO, V.Ye.; GIMMEL'FARB, A.A.

Homogenousness of the charge mixture in its lump size and gas
flow utilization. Izv. vys. ucheb. zav.; Chern. met. 5 no.3:
30-37 '62. (MIRA 15:5)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Blast furnaces--Equipment and supplies)

LEVCHENKO, V.E. [Levchenko, V.Ye.]; GHIMMELFARB, A.A. [Gimmel'farb, A.A.]

Homogeneity of the granulation of furnace loads and utilization
of gas flux. *Analele metalurgie* 16 no.4:27-35 Q-D '62.

YEFIMENKO, G.G., kand.tekhn.nauk; GIMMEL'FARB, A.A., knad.tekhn.nauk;
Prinimali uchastiye: POLTAVETS, V.V., inzh.; GRISHKO, V.A., inzh.;
NEMCHENKO, S.Z., inzh.; OSTAPENKO, V.A., tekhnik; POBUDINSKIY, L.I.,
tekhnik; KATSMAN, V.Kh., tekhnik; KARMAZIN, A.G., tekhnik

Regulating blast furnace operations by fluctuations of gas pressure
and the distribution of materials in the hearth bottom. Stal' 22
no.10:876-880 0'62. (MIRA 15:10)

(Blast furnaces)

KRASAVTSEV, N.I., kand.tekhn.nauk, red.; GIMMEL'FARB, A.A., kand.
tekhn. nauk, red.; GONCHAROVA, L.A., red. izd-va;
ISLENT'YEVA, P.G., tekhn. red.

[Acceleration of blast furnace smelting] Forsirovanie
domennoi plavki; trudy. Moskva, Metallurgizdat, 1963.
386 p. (MIRA 16:8)

1. Nauchnaya konferentsiya po teoreticheskim voprosam me-
tallurgii chuguna. Dnepropetrovsk, 1961.
(Blast furnaces)

GIMMEL'FARB, A.A., kand.tekhn.nauk; LAPA, A.M., inzh.

Effect of the reduction in the consumption of coke on conditions of
gas dynamics in blast furnaces. Stal' 23 no.7:593-597 JI '63.

(MIRA 16:9)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Blast furnaces) (Gas dynamics)

PEVTSOV, V.P., kand.tekhn.nauk; Potebnya, Yu.M., kand.tekhn.nauk; GIMMEL'FARB,
A.A., kand.tekhn.nauk

Radiometric investigation of the tuyere zone in blast furnaces. Stal'
23 no.7:599-600 J1 '63. (MIRA 16:9)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Blast furnaces) (Radiometry)

GOTLIB, A.D.; GIMMEL'FARB, A.A.; LAPA, A.M.

Improving the algorithm for regulating the heat conditions in a
blast furnace. Izv. vys. ucheb. zav.; chern. met. 8 no.10:
22-30 '65. (MIRA 18:9)

1. Dnepropetrovskiy metallurgicheskiy institut.

L 22139-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AP6012947

SOURCE CODE: UR/0133/65/000/007/0585/0589

AUTHOR: Gotlib, A. D. (Doctor of technical sciences); Gimmel'farb, A. A. (Candidate of technical sciences); Yefimenko, G. G. (Candidate of technical sciences); Lapa, A. M. (Candidate of technical sciences); Polovchenko, I. G. (Candidate of technical sciences); Grishko, V. A. (Engineer); Chechuro, A. N. (Engineer); Kharchenko, N. M. (Engineer)

ORG: Dnepropetrovsk Metallurgical Institute (Dnepropetrovskiy metallurgicheskiy institut); Plant im. Dzerzhinskiy (Zavod)

TITLE: Automatic control of the thermal state of a blast furnace

SOURCE: Stal', no. 7, 1965, 585-589

TOPIC TAGS: automatic control, blast furnace, algorithm, digital computer

ABSTRACT: The currently used methods for controlling the thermal state of a blast furnace have considerable deficiencies. There is considerable delay in receipt of data for control changes. Control should be performed directly on the change in thermal and reductive work of the gases, depending on their distribution in the charge and their movement through it. Theoretical principles for thermal control by composition of flue gas have been developed: a) minimum usage of coke for smelting cast iron of a given composition under given conditions of charge material and melting is defined, b) these parameters of the process are directly maintained at a level necessary to produce iron with minimum deviation from the given composition when all heat reserves of the process are used.

Card 1/2

L 22139-66

ACC NR: AP6012947

On the basis of these considerations, an algorithm for control of the thermal state of a furnace was developed by the Lisichan Scientific Research Institute for Computers for use in the "Sovetchik Master" (SM-2) computer at blast furnace A of the plant imeni Dzerzhinskiy. This device is a digital computer which performs the mathematical and logical processing of input information on the basis of this algorithm. 7

During an 18-day trial period in May and a 36-day trial period in October-November, 1963, the computer recommended 108 changes in coke quantity and 144 changes in blast temperature. The results were positive; the thermal state of the furnace was mainly disrupted only when the recommendations were not fulfilled and during changes in loading without recommendation by the computer.

The recommendation control considerably increased consistency in output composition. Coke usage was decreased by 2.5%. The algorithm can be used only when the furnace is under regular use. Engineer S. Z. Nemchenko, Engineer A. S. Skorobogatov, Engineer M. I. Obuvalin, Engineer T. I. Slanchinskaya, Engineer A. M. Yunchik, Engineer Yu. M. Samarets, and Engineer D. S. Kalashnikov participated in the work. Orig. art. has: 3 figures and 2 tables. [JPRS]

SUB CODE: 13, 09 / SUEN DATE: none / ORIG REF: 004

Card 2/2 BK

GIMMEL'FARB, A.A., kand. tekhn. nauk; LIKHORADOV, A.P.; ZHEMBUS, M.D.;
ZHAK, A.M.

Increasing the strength of fluxed sinter. Met. i gornorud.
prom. no.6:7-11 N-D '65. (MIRA 18:12)

SOV/163-58-1-41/53

AUTHORS: Gimmel'farb, A. I., Yelyutina, V. I., Mozzhukhin, Ye. I.

TITLE: Some Data on the Pseudo-Binary Phase Diagrams of NiAl and TiC
(Nekotoryye dannyye k psevdobinarnoy diagramme sostoyaniya
NiAl-TiC)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 1,
pp 222-225 (USSR)

ABSTRACT: In special investigations the initial and end temperatures of
the melt of alloys containing up to 50% TiC were determined.
The alloys of NiAl and TiC were produced by the method of powder
metallurgy. The results obtained made it possible to represent
liquidus and solidus lines in NiAl and TiC.
The radiographic analyses of the samples showed that all alloys
investigated consisted of two phases. No solubility of TiC in
NiAl was found.
The metallographical analyses proved the presence of the bi-
phase NiAl and TiC in these alloys.
To produce the liquid phase in the alloys NiAl and TiC at the
sintering temperature the sintering has to be carried out at a
higher temperature.

Card 1/2

SOV/163-58-1-41/53

Some Data on the Pseudo-Binary Phase Diagrams of NiAl and TiC

To produce alloys of the system TiC and NiAl of greater strength and density a sintering temperature higher than 2000°C is necessary.

The eutectic temperature of the system TiC-NiAl was determined (1580°C).

There are 2 figures, 1 table, and 4 references, 1 of which is Soviet.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: October 1, 1957

Card 2/2

GIMMEL'FARB, A.I., insh.; CHASOVITIN, G.I., insh.

Preparing pig iron in rotary furnaces and its use in
the blast-furnace process. Stal' 20 no.8:691-694
Ag '60. (MIRA 13:7)

1. Orsko-Khalilovskiy metallurgicheskiy kombinat.
(Blast furnaces--Equipment and supplies)
(Ore dressing--Equipment and supplies)

KOLESANOV, F.F.; SHUMAKOV, N.S.; FEDORENKO, N.V.; SHUMAKOV, L.G.;
GIMMEL'FARB, A.I.

Dressing of Akkermanovka ores and sintering of the
concentrates produced. [Sbor. trud.] Nauch.-issl.
inst.met. no.4:44-53 '61. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut metallurgii
(for Kolesanov, Shumakov, Fedorenko). 2. Orsko-Khalilovskiy
metallurgicheskiy kombinat (for Shumakov, Gimmel'farb).
(Akkermanovka region—Iron ores)
(Ore dressing) (Sintering)

GIMMEL'FARB, A.I.; ULMER, A.H.

Production of sponge iron in batch-operated converters. *ibid.*
tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform.
17 no.6:92-94 Je '64. (SER. 17:11)

GIMMEL'FARB, A.L., aspirant

Fracture dislocations of the shoulder joint and their treatment.
Kaz.med.zhur., no.5:27-30 S-O '62. (MIRA 16:4)

1. Kafedra ortopedii i travmatologii (zav. - prof. L.I. Shulutko) Kazanskogo gosudarstvennogo instituta dlya vrachey imeni V.I.Lenina na baze Kazanskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - kand.med.nauk U.Ya.Bogdanovich).

(SHOULDER JOINT--DISLOCATIONS)

GIMMEL'FARB, A.L.

KAN, Saveliy Makhimovich; ROSTOVTSSEV, G.G., doktor tekhnicheskikh nauk, professor, retsenzent; GIMMEL'FARB, A.L., kandidat tekhnicheskikh nauk, dotsent, redaktor; SOVOROVA, I.A., redaktor; ZUDAKIN, I.M. tekhnicheskii redaktor.

[Structural strength of the airplane] Prochnost' samoleta. Izd.4-on, Moskva, Gos.izd-vo oboronnoi promyshlennosti, 1955. 285 p.(MLRA 8:11)
(Airplanes--Design and construction)

GIMMEL'FARB, A.L.

Functional spint for the lower extremity. Ortop.travn. i protez.
20 no.7:52-54 J1 '59. (MIRA 12:10)

1. Iz travmatologicheskogo otdeleniya (zav. - M.N.Nikitin)
Stalinskoy (Kemerovskoy obl.) gorodskoy klinicheskoy bol'-
nitay No.1 (glavnyy vrach - S.F.Kirin).
(SPLINTS)

GIMMEL'FARB, A.L.

1(0) 82

PHASE I BOOK EXPLOITATION

SOV/2835

Moscow. Aviatsionnyy institut im. Sergo Ordzhonikidze

Voprosy proyektirovaniya samoletov; sbornik statey (Problems in Aircraft Designing; Collection of Articles) Moscow, Oborongiz, 1959. 74 p. (Series: Its: Trudy, vyp. 108) Errata slip inserted. 3,100 copies printed.

Sponsoring Agency: Ministerstvo vysshego obrazovaniya SSSR.

Ed.: A.L. Gimmel'farb, Candidate of Technical Sciences, Docent; Ed. of Publishing House: K. I. Grigorash; Tech. Ed.: L. A. Pukhlikov; Managing Ed.: A.S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for personnel in the design offices of aircraft plants. It may also be used by students at aviation institutes.

COVERAGE: This collection of articles describes the results of theoretical and experimental investigation connected with the determination, during the designing stage, of basic aircraft and wing parameters, total weight of aircraft and its components, type of engines and the amount of fuel. Problems of

Card 1/4

Problems in Aircraft Designing (Cont.)

SOV/2835

aircraft strength and stability are also considered. No personalities are mentioned. References appear in the text.

TABLE OF CONTENTS:

Preface

3

Fomin, N.A. [Candidate of Technical Sciences], Methods for Determining the Basic Parameters of Aircraft and Aircraft Wings

5

The author determines basic parameters of aircraft and selects from them the most important. These are: Total weight of aircraft, wing-surface design and weight, and the necessary thrust for starting.

Gimmel'farb, A.I. [Candidate of Technical Sciences]. Calculating Necessary Fuel Supply and Total Weight of Aircraft During the Designing Stage

37

In this article the author deducts simple weight formulas based on only two static coefficients:

Card 2/4

Problems in Aircraft Designing (Cont.)

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weight efficiency and fuel consumption.

Fadeyev, N.N. [Candidate of Technical Science]. Comparative Evaluation of Aircraft Engines According to Their Weight in Flight

41

A method is given to help in the selection of an engine for a given aircraft and for determined régimes and flight distances

Zhevagina, A.A. [Candidate of Technical Sciences]. Determination of Critical Stresses in Laminar Compressed Panels With Veneer Covering

52

Results of an investigation show that sufficient support is formed for a thin veneer lining by a filling with the specific weight of $0.065 \pm 0.1 \text{ gr/cm}^3$. With this filling the panel behaves as a homogeneous body until the moment of a general loss of rigidity.

Voyt, Ye.S. [Candidate of Technical Sciences]. Stability of a Crossed-Bar Assembly Which Has Been Compressed in One Direction

59

The author is concerned with the plane and curved
Card 3/4

Problems in Aircraft Designing (Cont.)

SOV/2835

reinforced panels used in ship and aircraft construction. He analyses the influence of separate factors on the stability of the panels and indicates practical methods of choosing, in the first approximation, the most convenient disposition of basic elements of the panel.

AVAILABLE: Library of Congress

Card 4/4

IS/mg
11-23-59

S/535/61/000/138/008/008
E191/E135

AUTHOR: Gimmel'farb, A.L., Candidate of Technical Sciences
TITLE: The analysis of two-flange thin walled stringers for bending and shear stresses under flexure
SOURCE: Moscow. Aviatsionnyy institut. Trudy. no.138. 1961. Metody priblizhennykh raschetov i vybora parametrov pri proyektirovanii samoletov. 93-99.

TEXT: The significance of the assumptions made in the design of I-beams is examined. Usually in project work the effect of the web is neglected. Beyond some value of the ratio of web thickness to flange width, the contribution of the web becomes significant. Introducing a more exact expression for the moment of inertia of the beam it is shown from a graph that, when the flange thickness is less than 10% of the beam height, the web takes a significant part in resisting the bending moment beyond a web thickness of 10% of the flange width. In aircraft structures, where flange thicknesses are not less than 5% of the beam height, web thicknesses do not exceed 2% of the flange width and the bending moment carried by the web does not exceed 5%. Further analysis of I-beams

Card 1/2

The analysis of two-flange thin

S/535/61/000/138/008/008
E191/E135

proceeds to ignore the contribution of the web. The effect of the assumption that stress is carried uniformly by the flange is examined. With a flange thickness of 10% of the beam height, the error in the stress computed by the approximate assumption is 10%. A simplified second approximation is given ensuring 1% accuracy up to a flange thickness of 40% of the beam height. This approximation is used in a simple formula for the required beam width containing a factor whose numerical values are given in a table as a function of the relative flange thickness. The shear stress is often assumed to be carried entirely by the web along which it is uniformly distributed. The error of this approach is computed and plotted in a graph as a function of the relative web thickness. At a flange thickness of 10% of the beam height and a web thickness of 2% of the beam width, the shear stress error is 10% but rises to 18% when the web thickness is 10%. A second approximation formula is given which ensures an accuracy better than 1% at flange thicknesses between 10 and 40% of the beam height and web thickness between 1 and 3% of the beam width. There are 7 figures and 1 table.

Card 2/2

FOMIN, Nikolay Aleksandrovich; KOMAROV, A.A., kand.tekhn.nauk, dotsent, retsenzent; PETROV, M.N., doktor tekhn.nauk, prof., retsenzent; GIMMEL'FARB, A.L., kand.tekhn.nauk, dotsent, red.; TUBYANSKAYA, F.G., izdat.red.; ROZHIN, V.P., tekhn.red.

[Design of airplanes. Determination of weight, arrangement, selection of the aerodynamic design and basic parameters]
Proektirovanie samoletov. Opredelenie vesa. Komponentka.
Vybor skhemy i osnovnykh parametrov. Moskva, Gos.nauchno-tekhn.izd-vo Oborongiz, 1961. 361 p. (MIRA 14:12)
(Air planes--Design and construction)

GIMMEL'FARB, A.Ya., inzh.

Selecting the layouts for cold-storage plants with mechanized loading operations. Khol. tekhn. 38 no.4:42-46 J1-Ag '61.
(MIRA 15:1)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy Akademii stroitel'stva i arkhitektury SSSR.
(Cold storage warehouses)

GIMMEL'FARB, A.Ya., arkhitektor

One-story cold storage distributing point. Prom.stroi. 39
no.6:27-30 '61. (MIRA 14:7)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy.
(Cold storage warehouses)

GIMMEL'FARB, A.Ya., arkhitektor

Standardization of storage warehouses of food and light industry.
Prom. stroi. 40 no.7:40-44 '62. (MIRA 15:7)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy
institut promyshlennykh zdaniy i sooruzheniy Akademii stroitel'stva
i arkhitektury SSSR.
(Warehouses—Standards)

GIMMEL'FARB, A. Ya.

Location of warehouses in cities. Sov. tovg. 36 no.8:9-13
Ag '63. (MIRA 16:11)

1. Glavnyy arkhitektov Tsentral'nogo nauchno-
issledovatel'skiy i proyektno-eksperimental'nyy institut
promyshlennykh zdaniy i sooruzheniy.

GIMMEL'FARB, A.Ya., arkhitektor

Cooperative storehouse centers must be built. Prom. stroi.
41 no.11:6-9 N '63. (MIRA 17:2)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy.

GIMMEL'FARB, B. [Himmelfarb, B.]

Noctilucent clouds. Astron. tsir. no. 221:14-15 Ap '61.
(MIRA 14:11)

1. Arkhangel'skiy pedagogicheskiy institut.
(Clouds)

GIMMEL'FARB, B.M.; TUSHINA, A.M.; SMIRNOV, A.I.; MAYMISTOVA, R.I.

Geology and ore types in the Dzhany-Tas phosphorite deposit.

Trudy GIGKHS no.7:71-131 '62.

(MIRA 16:5)

(Kara-Tau region--Phosphorites)

(Kara-Tau region--Ore deposits)

GIMMEL'FARB, B. M., doktor geologo-mineralogicheskikh nauk

Raw materials for the fertilizer industry. Zhur. VKHO 7 no.5:
495-499 '62. (MIRA 15:10)

(Fertilizer industry)

CA
GIMMELFARB, B.M.

Phosphorite deposits at Ribbin (Persian Government). J. M. KURMAN AND B. M. GIMMELFARB. *Mineralog. Surv.* No. 9, 1199-200(1930).--Geological description of the deposits, results of concn. expts. and chem. analyses are given. B. N. D.

ASB S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

(Handwritten: CIA)

HIMMELFARB, B.M.

PROCESSES AND PROPERTIES NEEDED

Kandagach phosphate deposits. B. M. HIMMELFARB *Trans. Sci. Inst. Fertilizers* (Moscow) No. 83, 3-26(1931).—A report on the phosphate deposits in Kandagach, Kazakhtav. It is said that there are 21 million tons of rock averaging 18% P₂O₅. J. S. JORRN

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

GIMMEL'FARB, B. M.

GIMEL'FARB, B. M.

Syr'evaia baza tukovoi promyshlennosit SSSR. Moskva, Gl. red. gorno-top-
livnoi i geol.-razvedochnoi lit-ry, 1937. 249 p. (TSentral'naia komissia po zapasma
poleznykhiskopaemykh.)

"Spisoi literatury": p. 241-(248)

DLC: TN 85.G56

SO: LC, Soviet Geography, Part I, 1951, Uncl.

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSIES AND PROPERTIES INDEX																			
<p>A new region of high-quality phosphorite, Kara-Tau. P. L. Bezrukov, B. M. Gijumet'arb, I. M. Grinval'd, V. I. Dunaevskii and I. I. Korolev. <i>J. Chem. Ind.</i> (U. S. S. R.) 15, No. 6, 3041(1961). The development of this Kazakhstan region is discussed. H. M. I.</p>																			
<p>458-55A METALLURGICAL LITERATURE CLASSIFICATION</p>																			
<p>1ST AND 2ND ORDERS</p>										<p>3RD AND 4TH ORDERS</p>									

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PROCESSES AND PROPERTIES INDEX																																																			
18																																																			
<p>✓</p> <p>Phosphorites of U. S. S. R. B. M. Gimmel'farb and N. A. Afanas'ev. <i>Nauch. Inst. Udobravitsyn i Tsikhlo-fungtsidam Ya. V. Samoilova</i> 1919-39, 24-33; <i>Kim. Referat. Zhur.</i> 1940, No. 6, 80-7. - The properties of phosphorites of the Kirov, Moscow, Aktyubin and other regions of U. S. S. R. are described. The Kara-Tau phosphorites (Southern Kazakhstan) are of the greatest importance. Their estimated reserves are 315 million tons, with a productivity of 25 tons/sq. m. The av. P_2O_5 content is 26% and R_2O_3 2.0-2.5%. The com. production of phosphorites rose to 877,000 tons in 1937, from 14 active mines, from 20,000 tons in 1922-23. W. R. Henn</p>																																																			
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GIMMEL'FARQ, G. M.		18	
<p>Potassium salts. B. M. Gimmel'farb, N. A. Afanas'ev and S. I. Volkovich. <i>Nauka. Izv. Tashkentiyam i Inzheneringim</i> Ya. V. Samoilova 1919 30, 52 9(1030); <i>Ref. Zhur.</i> 1940, No. 6, 83. --Prospecting for K salts done on the Central Asiatic deposits. The Okuz-Bulak sylvinitic deposits and the deposits in Kyrk-Kyz, Kari-Kan, etc., are of the greatest importance. Complex K-contg. fertilizers (nitrates, phosphates and sulfates of K and their mixts.) can be produced by treating the various K salts. The physical and physical-chem. properties of K salts were investigated. W. R. Henn</p>			
<p>ASH-31A METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900</p>		<p>1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900</p>	

STANDARD INFORMATION REPORT

AND THE ORDER OF PRECEDENCE AND PRIORITY INDEX

GIMMELEARC, B.M.

BC

A-1

Age of the phosphorite-bearing beds of the Kara-tau. P. I. Isacubov, U. M. Himmelsbach, and A. S. Sobolev (*Compt. rend. Acad. Sci. U.R.S.S.*, 1940, no. 288-289).—From the forms of trilobites and brachiopods found in the lower portion of the Tamdy limestone overlying the phosphorite deposits in the Kara-tau, it is inferred that these deposits belong to the Middle Cambrian age. J. W. S.

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

STONY STEELING

SECONDARY USE ONLY

REVISIONS

REVISIONS ON ONE SET

GIMMEL'FAHB, B.M.

[What are phosphorites; where and how to find them] Chto takoe fos-
fority, gde i kak ikh iskat'. Moskva, Gos. nauchno-tekhn. izd-vo lit-
-ry po geologii i okhrane nedr, 1954. 25 p. (MLRA 8:5)
(Phosphorite)

GIMMEL'FARB, E.M.

USSR/ Geology

Card 1/1 Pub. 22 - 32/45

Authors : Gimmel'farb, E. M., and Narchemashvili, O. V.

Title : New data on the phosphatization of Upper Cretaceous deposits in Georgia

Periodical : Dok. AN SSSR 103/2, 291-293, Jul 11, 1955

Abstract : Geological data are presented on the phosphates discovered among the Upper Cretaceous deposits of Georgian SSR. Seven USSR references (1923-1948).

Institution : State Sc. Res. Inst. of Mining Chemical Raw Materials

Presented by : Academician N. M. Strakhov, February 9, 1955

GIMMEL'FARB, B.M.

DOLGOPOLOV, N.N.; BEZHUKOV, P.L., redaktor; BUSHINSKIY, G.I., redaktor;
GIMMEL'FARB, B.M., redaktor; IVANOV, A.A., redaktor; STRAKHOV, N.M.,
akademik, otvetstvennyy redaktor; PISENKO, I.A., redaktor; ASTROV,
A.V., redaktor izdatel'stva; AUZAN, N.P., tekhnicheskiy redaktor

[Problems in the geology of agronomic minerals] Voprosy geologii
agronomicheskikh rud. Moskva, 1956. 239 p. (MIRA 9:11)

1. Akademiya nauk SSSR. Otdeleniye geologo-geograficheskikh nauk
(Geology, Economic) (Fertilizers and manures)

GINOGL'FARB, B.M.; KREYTER, B.M., glavnyy red.; SHATALOV, Ye.T., zastititel' glavnogo red.; YEROFYEV, B.M., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, V.I., red.; YAKHIN, A.A., red.; MARKOV, P.N., red.; VERSTAK, G.V., red.; AVERKIYEVA, T.A., tekhn. red.

[Prospecting for phosphorite deposits] Razvedka mestorozhdenii fosforitov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane neдр. 1957. 65 p. (Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.5). (MIRA 11:1)

(Phosphorites) (Prospecting)

GIMMEL'FARB, Boris Mikhaylovich (State Sci-Res Inst of Minin:-Chem Raw Materials) awarded sci degree of Doc Geologo-Mineralogical Sci for the 14 Nov 57 defense of dissertation: "Basic principles governing phosphoric deposits in the USSR and their genetic classification" at the Council, Geological Inst, AS, USSR; Prot No 14, 31 May 58.

(BMVO, 11-58,18)

SPINLETTORR, EST

PUSTOVALOV, L.V.; SERDYUCHENKO, D.P.; GIMMEL'FARB, B.M.; KURMAN, I.M.

Aleksandr Vasil'evich Kazakov; biographical sketch. Trudy Inst.
geol. nauk no.152:3-7 '57. (MLRA 10:9)
(Kazakov, Aleksandr Vasil'evich, 1888-1950)

GIMMEL FARB, B.M.

3(5) **PLANE I BOOK EXPLOITATION** 807/1886

"On" radionemaya nuuchnaya sessiya po metallogenicheskim i prognosnym kartam, Alma-Ata, 1958.

"Materialy nuuchnoy sessii po metallogenicheskim i prognosnym kartam: doklady. (Materials Presented at the Scientific Session on Metallogenetic and Postulated Ore Occurrence Maps; Reports)" Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1958. 318 p. Errata slip inserted. 3,650 copies printed.

M.M. A.B. Pogodnev; Tech. Ed.: P.P. Alferov.

Sponsoring Agencies: (1) Akademiya nauk SSR, (2) Akademiya nauk Kazakhskoy SSR, Alma-Ata, (3) USSR, Ministerstvo geologii i okhrany nedr, (4) Kazakh SSR, Ministerstvo geologii i okhrany nedr.

Purpose: This book is intended for exploration geologists, mining engineers, and cartographers.

Materials Presented (Cont.) 807/1886

CONTENTS: This collection of reports was presented at the United Scientific Session on Metallogenetic and Postulated Ore Occurrence Maps, convened by the Academy of Sciences of the USSR, December, 1958. The reports deal with various aspects of compiling metallogenetic and ore occurrence maps as well as the methodology and techniques of correlating geophysical exploration data. These reports deal only with non-ferrous metals. Three other reports delivered at the conference but not included in this work were read by Ye.Ye. Zakharov, M.B. Shatakiy, and Yu.K. Goretakiy. References accompany each article.

TABLE OF CONTENTS:	
Materials Presented (Cont.)	807/1886
Zhilinskiy, G.B. [IGN AN KazSSR]. Principles of Compiling the Postulated Occurrence Maps for Tin in Central Kazakhstan	148
Tyurin, B.A. [Kaz IRS and Kaz GGI]. Technique of Compiling a Metallogenetic and Postulated Occurrence Map for the Mesozoic Mountains of Central Kazakhstan	165
Gimmel'farb, B.M. [GIMFAR]. Basic Principles for Compiling Postulated Occurrence Maps for Phosphates	183
Gedevskiy, M.N. [VASKH]. Problem of Compiling the Metallogenetic and Postulated Occurrence Map for the Northwest Part of Siberia Platform	199
Izmerov, A.A. [VASKH]. Relations Formations of the USSR and the Regularity of Distribution of the Principal Ore Deposits Related to them	203
Rudkevich, Ye.A., I.N. Yumason. [IGEM]. Large Scale Metallogenetic Mapping	312
Card 5/6	

GIMMEL'FARB, B.M.

Tectonic distribution of phospherite deposits in the U.S.S.R.
Zakenem. razm. polezn. iskop..1:487-516 '58.) (MIRA 12:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gerne-
khimicheskogo syr'ya pri Gosudarstvennom Komitete Soveta Ministrov
SSSR po khimii.

(Phospherites)

GIMMEL'FARB, B.M.

Dissertations. Branch of Geological-Geographical Sciences Jul.-Dec 1957
Vest. Ak Nauk SSSR, No. 4, pp. 118-119, 1958.

At the Institute for the Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry the following dissertations were defended for the degree of a Candidate of Geological-Mineralogical Sciences:

GALDIN, N. Ye. - Peculiarities in the Structure of the Deposit of Belousovsk in the Altai.

SMOLIN, P. P. - Contact Processes of the Post-Jurassic Intrusions of the Aldan.

At the Geological Institute the following dissertations for the degree of a Doctor of Geological-Mineralogical Sciences were defended:

ASLANYAN, A. T. - Regional Geology of Armenia.

GIMMEL'FARB, B. M. - Essential Regularities of the Phosphorite Deposits of the USSR and Their Genetic Classification.

LUCHITSKIY, I. V. - Volcanism and Tectonics of the Devonian Depressions of the Minusinsk Bending of the Intermediate Mountains.

POGULYAYEV, D. I. - Geological Structure and Mineral Resources of the Smolensk Region.

At the Institute of Oceanology the following dissertations for degree of Cand. of Geographical Sciences were defended:

ARKHIPOVA, Ye. G. - Thermal Regime of the Caspian Sea.

UL'ST, V. G. - Morphology and Developmental History of the Field of Marine Accumulation in the Summit of the Gulf of Riga.

AUTHORS: Chepelevetskiy, M. L., Gimmel'farb, B. M., 20-119-1-36/52
Kuperman, M. Ye., Krasil'nikova, Z. V.

TITLE: An Electron-Microscope Investigation of the Structure of
Phosphorites From the Kara-Tau Basin (Elektronno-mikroskopi-
cheskoye issledovaniye struktury fosforitov basseyna Kara-
-Tau)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 1, pp. 133-135
(USSR)

ABSTRACT: The phosphorites of this basin (deposits Ak-Say, Kok-su and
Chulak-Tau) contain larger quantities of dolomite (mostly
10-18%), whereby the consumption of sulfuric acid per ton of
assimilable P_2O_5 in superphosphate increases. Thereby the
quality of this fertilizer is impaired as well with regard
to the assimilable P_2O_5 as to its physical properties: it
becomes hygroscopic and smeary. At present 2 methods of the
enrichment of these phosphorites exist: flotation and the
chemical method. By flotation it was possible to attain a
concentrate with a highly reduced magnesium content (Ak-Say),
whereas the phosphorites of the Chulak-Tau deposit still
yield concentrates with an MgO-content of 1,5% and higher.

Card 1/3

An Electron-Microscope Investigation of the Structure of
Phosphorites From the Kara-Tau Basin

20-119-1-36/52

These difficulties may be explained by the grain size of the phosphate substance of these phosphorites. The respective ores were inspite of a similar geological age and belonging to the same series of phosphorites intensively changed by a contact-metamorphism (nearness of a granite-intrusive), especially their phosphates were recrystallized. The structural peculiarities of the Chulak-Tau phosphorites were investigated under an electron-microscope. The structure of the phosphorites of the two remaining deposits were studied for comparison under an ordinary microscope. The characteristics of the Kara-Tau phosphorites are given in table 1. Polished sections of phosphorite samples were produced, impressions were made by the polystyrene-quartz and the collodium-quartz method and then etched, and again impressions made. The investigation showed that the size of the phosphate grains in all 5 samples from Chulak-Tau lies between 0,1 and 4,0 (figure 2). As the production of concentrates is due to the grain size in Chulak-Tau rendered difficult, the flotation shall be combined with a refinement by diluted acids, especially H_2SO_4 . There are 2 figures, 1 table.

Card 2/3

An Electron-Microscope Investigation of the Structure of
Phosphorites From the Kara-Tau Basin

20-119-1-36/52

ASSOCIATION: Nauchnyy institut po udobreniyam i insektofungisidam
(Scientific Institute for Fertilizers and Insecticides).
Gosudarstvennyy institut gornokhimicheskogo syr'ya
(State Institute for Mining-Chemical Raw Materials)

PRESENTED: June 11, 1957, by S. I. Vol'fkovich, Member, Academy of
Sciences, USSR

SUBMITTED: June 5, 1957

Card 3/3

SHERESHEVSKIY, A.I.; GIMMEL'FARB, B.M., nauchnyy red.; NEKRASOVA, N.B.,
red.izd-va; IVANOVA, A.G., tekhn.red.

[Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia;
spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po geologii i okhrane neдр. No.19. [Phosphate
minerals; apatites and phosphorites] Fosfatnoe syr'ie; apatity i
fosfority. Nauchn.red. B.M.Gimmel'farb. 1959. 42 p.
(MIRA 13:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mine-
ral'nogo syr'ya.
(Apatite) (Phosphorites)

GIMMEL'FARB, B.M.; IZRAILKVA, G.A., red.izd-vs; BYKOVA, V.V., tekhn.red.

[What are phosphorites, where and how to look for them] Chto takoe fosfority, gde i kak ikh iskat'. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr, 1960. 16 p. (MIRA 13:9)
(Phosphorites) (Mineralogy, Determinative)

PUSTOVALOV, L.V., otv.red.; GIMMEL'FARB, B.M., red.; KRASHENINNIKOV,
G.F., red.; SARKISYAN, S.G., red.; SERDYUCHENKO, D.P., red.;
TEODOROVICH, G.I., red.; SHVETSOV, M.S., red.; SMIRNOVA, Z.A.,
red.izd-va; IVANOVA, A.G., tekhn.red.

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(MIRA 14:3)

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Agronomic ores and the problems of their geological study. Vest.
AN SSSR 32 no.10:46-54 0 '62. (MIRA 15:10)
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Ya.I., red.; RAKITIN, I.T., tekhn. red.

[Fertilizing rocks] Kamni plodorodiia. Moskva, Izd-vo
"Znanie," 1963. 39 p. (Novoe v zhižni, nauke, tekhnike.
XII Seria: Geologiya i geografiia, no.15) (MIRA 16:8)
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Exploiting phosphorite-bearing Karatau Basin. Khim. prom. no.5:
323-328 My '64. (MIRA 17:9)

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[Characteristics of the distribution of phosphorite deposits in the U.S.S.R. and their genetic classification] Zakonomernosti razmeshcheniia mestorozhdenii fosforitov SSSR i ikh geneticheskaiia klassifikatsiia. Moskva, Nedra, 1965. 306 p. (MIRA 18:8)

GIMMEL'FARB, B. N.

USNS/Physics

Solar Phenomena

Solar Radiation

Mar 1947

"Report on the Current Cycle of Solar Activity," B. N.
Gimmel'farb, 2 $\frac{1}{2}$ pp

"Priroda" No 2

Short article describes the current activity of the
solar cycle from the standpoint of Wolf's index.
Wolf's number for 1945 and 1946 by months. Also
gives the maximum Wolf's number for various periods
dating back to 1837.2.

34782

10

GIMMEL'FERB, B. N.

PA 16161

USSR/Solar Phenomena
Spectrophotometry

May 1947

"All-Union Conference on Solar Investigation,"
B. N. Gimmel'ferb, 5 pp

"Priroda" No 5

Conference held in Leningrad 16 - 19 Dec 1946.
V. A. Kret (GAO) and V. N. Kucherova discussed
spectrophotometric work; A. I. Lebedinskogo (IGU)
work on magnetic poles in sunspots, in cooperation
with L. Ye. Gurevich; I. S. Shklovskiy (GAISH)
on ionization of metals in the corona; E. Ya.
Bugoslavskoy (GAISH) on the structure of the
corona. V. V. Sheronov, N. N. Sytinskaya, M. N.

Gevysheva, and M. S. Yegenson (GAO) were also
among those attending.

16161

GIMMEL'FARB, B. N.

USSR/Physics
Solar Phenomena
Solar Radiation

Apr 1948

"Expedition of the Academy of Science USSR for the Observation of the Total Solar Eclipse of 20 May 1947 in South America," B. N. Gimmel'farb, 5 pp

"Priroda" No 4

Full account of preparations for expedition and places visited: Reception in Brazil was favorable, except for some provocative articles in the fascist press.

In Rosario many Slavs manifested lively interest in everything connected with the great land of socialism.

Comments on hostile attitude of Argentine authorities. Eclipse could not be observed in Aracha owing to clouds. Swedish, Canadian and Czech expeditions were likewise unfortunate.

7871

GIMMEL'FARB, B. N.

May 48

USSR/Physion
Telescopes

"G. Dimitrov and D. Beker's 'Telescopes and Their
Appurtenances,'" B. N. Gimmel'farb, 2 pp

"Priroda" No 5

Reviews book, originally published by Harvard Ob-
servatory, chapter by chapter. Most of the un-
favorable comments are directed at the translator.
Published by Gostekhizdat, Moscow-Leningrad, 1947,
307 pp, 15,000 copies printed, price 5 rubles,
binding 2 rubles.

5/49T104

GIMMEL'FARB, B. N.

"Nature of 'Creoyscykar Myopia'," Priroda, No 6, 1948.

GIMMEL'FARB, B. N.

"Review of Fletcher Watson's Book 'Between the Planets', " Priroda, No 7, 1948

GIMMEL'FARB, B. N.

PA5/49T101

USSR/Physics
Astronomy
Stellar Dynamics

Jul 48

"Universal Importance of Soviet Astronomy," B. N.
Gimmel'farb, 5 pp

"Priroda" No 7

Reports conference, held by Leningrad Division of
All-Union Astr and Geodesic Soc 5-6 Mar 48, devoted
to taking stock of Soviet contribution to "world
astronomy". Among papers read were: "Celestial
Mechanics" by M. F. Subbotin, "Stellar Astronomy"
by M. S. Eygenson, "Planets" by V. V. Sharonov,

5/49T101

Jul 48

USSR/Physics (Contd)

"Founders of Russian Astrophysics" by K. F.
Ogorodnikov, "Soviet Astrometry" by A. A. Nemiro,
and "Solar Physics" by V. A. Krat.

5/49T101

GIMMEL'FARB, B. N.

PA5/49T103

USSR/Physics
Solar Phenomena

Jul 48

"Sunspots of Record Breaking Size," B. N. Gimmel'farb,
1 p

"Priroda" No 7

The last 2 years were characterized by extreme solar activity, with an abundance of large sunspots. Describes sunspot first seen in Feb 46. By Mar 47, this sunspot area had grown to record size. Gives characteristics of the sunspot area at its maximum activity.

5/49T103